

Section 1-5: Solving Equations

Warm-up: Matt Mitarnowski won a raffle. He put one third of his winnings into the bank, used one half of the money for a car payment, and used the rest to buy some comic books. If Matt spent \$75 on comics, how much money did he win?

***What did we do in order to solve this problem?

Example 1: Solve $3x + 7 = 25$.

Distributive Property:

Opposite of a Sum Theorem:

Example 2: $f(x) = 5x - (3 - 2x)$. Suppose $f(x) = 46$. Find x .

Clearing out fractions:

Example 3: $\frac{1}{6}a + \frac{2}{5}a + 10 = 346$

Example 4: $.04b + .08(b - 3) = 12$.

Homework:

“If your daily life seems poor, do not blame it; blame yourself, tell yourself that you are not poet enough to call forth its riches.” - Rainer Maria Rilke